

CONTENTS OF VOLUME 42

- Allen, M. R. P., Evans, E. V., and Sibbald, I. R.** Energy:protein relationships in the diets of growing mink, 733.
- Anton, A. H. and Boyle, J. J.** Alteration of the acetylation of sulfonamides by protein binding, sulfinpyrazone, and suramin, 809.
- Ashwin, J. G. and Coughlin, W. R.** Fibrinolytic action of reserpine in rats, 153.
- Baum, H., El-Khanagry, H. A., and Moore, R. E.** Changes in the patterns of in vitro respiration of kitten diaphragms during the first few weeks after birth, 831.
- Beach, V. L.** See O'Driscoll, R. G., 289.
- Beaton, J. R. and Feleki, V.** Tissue enzyme response to cold and to hyperphagia in the rat, 787.
- Beaton, J. R., Feleki, V., and Stevenson, J. A. F.** Factors in the reduced survival time during starvation in the cold of rats previously fed a low-protein diet, 533.
Activity and patterns of rats fed a low-protein diet and the effects of subsequent food deprivation, 705.
- Beaton, J. R., Feleki, V., Szlavko, A. J., and Stevenson, J. A. F.** Meal-eating and lipogenesis in vitro of rats fed a low-protein diet, 665.
- Beaton, J. R., Szlavko, A. J., Box, B. M., and Stevenson, J. A. F.** Biological effects of anorexigenic and fat-mobilizing substances from rat urine, 657.
- Beaton, J. R., Szlavko, A. J., and Stevenson, J. A. F.** Extraction and chemical characteristics of anorexigenic and fat-mobilizing substances from rat urine, 647.
- Beaton, J. R. and Woodhead, R. L.** A note on kidney glutaminase activity and urinary excretion of ammonia in cold-exposed rats, 365.
- Beaulnes, A.** See Lavallée, M., 385; Panisset, J.-C., 21.
- Beaulnes, A. and Lavallée, M.** Differential effects of some phenothiazine derivatives against calcium-induced ventricular arrhythmias in the isolated rabbit heart, 845.
- Beck, J. C.** See Blair, A. J., Jr., 391.
- Beer, C. T., Wilson, M. L., and Bell, J.** The metabolism of *Vinca* alkaloids, Part I. Preparation of tritiated vinblastine; the rate of urinary excretion of radioactivity by rats receiving the compound, 1.
A preliminary investigation of the fate of tritiated vinblastine in rats, 368.
- Bell, J.** See Beer, C. T., 1, 368.
- Beznak, M. and Hacker, P.** Hemodynamics during the chronic stage of myocardial damage caused by isoproterenol, 269.
- Bigelow, W. G.** See MacGregor, D. C., 689.
- Black, B. A.** See Fregly, M. J., 415.
- Blair, A. J., Jr., Dyrenfurth, I., Venning, E. H., and Beck, J. C.** A comparison of the metabolic effects of human and porcine corticotropin in a normal human, 391.
- Blau, M.** See Manske, R. F., 133.
- Box, B. M.** See Beaton, J. R., 657; Stevenson, J. A. F., 855.
- Boyle, J. J.** See Anton, A. H., 809.
- Brake, C. M.** See Emerson, T. E., Jr., 41.
- Butler, H. R., Manax, S. J., and Stavratsky, G. W.** Hexafluorodiethyl ether (Indoklon) convulsions in corpus-callostomized white rats, 609.
- Carle, R.** See Panisset, J.-C., 21.
- Carter, S. A.** In vivo estimation of elastic characteristics of the arteries in the lower extremities of man, 399.
- Chaffee, R. R. J. and Mayhew, W. W.** Studies on chemical thermoregulation in the house sparrow (*Passer domesticus*), 863.
- Cohen, L. H. and Hagen, P. B.** A physiological role for the presynaptic localization of acetylcholinesterase and for its inhibition by excess substrate, 593.
- Corbett, B. N.** See Perry, W. F., 353.
- Coughlin, W. R.** See Ashwin, J. G., 153.
- Crawford, A. L.** See Hawkins, R. D., 13.
- Daniel, E. E.** The interconnection between active transport and contracture in uterine tissues, 453.
Effects of cocaine and adrenaline on contractures and downhill ion movements induced by inhibitors of membrane ATPase in rat uteri, 497.
- Daramola, F.** See Monkhouse, F. C., 377.
- Davidson, J. K. and Haist, R. E.** A study of the levels of extractable insulin of guinea pig pancreas, 315.
- DesMarais, A. and LeMay, B.** Effects of an inhibitor of the calorigenic activity of thyroxine in warm- and cold-acclimated mice, 373.

- Dieudonné, J. M.** Effect of cyproheptadine on a topical calcification in the rat, 349.
- Dowd, G. F.** See Leong, K. J., 189.
- Dresel, P. E.** See MacCannell, K. L., 157, 281, 627.
- Dugal, L.-P.** See Smith, L. C., 563, 567, 579.
- Dunnigan, J.** Effect of chronic cortisone treatment and cold exposure on the zinc content and the succinic dehydrogenase activity of the adrenal gland, 127.
- Dyrenfurth, I.** See Blair, A. J., Jr., 391.
- Ebner, K. E.** See Ewing, L. L., 527.
- Eik-Nes, K. B.** On the relationship between testicular blood flow and secretion of testosterone in anesthetized dogs stimulated with human chorionic gonadotrophin, 671.
- El-Khanagry, H. A.** See Baum, H., 831.
- Emerson, T. E., Jr., Brake, C. M., and Hinshaw, L. B.** Cardiovascular effects of the insecticide endrin, 41.
- Emmons, P. R.** See McLennan, H., 329.
- Evans, E. V.** See Allen, M. R. P., 733.
- Ewing, L. L., Noble, D. J., and Ebner, K. E.** The effect of epinephrine and competition between males on the in vitro metabolism of rabbit testis, 527.
- Feleki, V.** See Beaton, J. R., 533, 665, 705, 787.
- Fisher, K. C.** See Gourley, D. R. H., 139.
- Frederick, G. L.** Effect of different diluents on electronic determination of erythrocytic volume frequency distribution curves of farm animals, 680.
- Fregly, M. J. and Black, B. A.** Effect of methylphenidate on spontaneous activity, food intake, and cold tolerance of propylthiouracil-treated rats, 415.
- Friedberg, J.** See Money, K. E., 793.
- Gabbiani, G.** See Prioreschi, P., 763.
- Genest, J.** See Nowaczynski, W., 547.
- George, J. C. and Vallyathan, N. V.** Capacity for fatty acid oxidation by the breast muscle of the starling (*Sturnus roseus*) in the pre- and post-migratory periods, 447.
- Gillespie, R. J.** See Monkhouse, F. C., 377.
- Girling, F.** Metabolic response of nude human subjects to acute exposure at 10° C, 319.
See also Hurley, D. A., 233.
- Gourley, D. R. H. and Fisher, K. C.** The role of lactate in the stimulation of the oxygen consumption of frog muscle by insulin, 139.
- Gowdey, C. W.** See Patel, Y. J., 245.
- Guttman, M.** See Kalant, H., 25.
- Hacker, P.** See Beznak, M., 269.
- Hagen, P. B.** See Cohen, L. H., 593.
- Haist, R. E.** See Davidson, J. K., 315; Hawkins, R. D., 13, 341; Hunter, J., 209, 217; Nishikawara, M. T., 65.
- Harvey, K.** See Roach, M. R., 53.
- Hatcher, J. D.** See Jennings, D. B., 719.
- Hawkins, R. D.** See Nishikawara, M. T., 65.
- Hawkins, R. D., Crawford, A. L., and Haist, R. E.** The effect of reserpine on the sensitivity of rats to insulin and tolbutamide, 13.
- Hawkins, R. D. and Haist, R. E.** The effect of tolbutamide on hepatic glucose-6-phosphatase activity in rats pretreated with insulin for 4 weeks, 341.
- Henderson, C. B. and Webber, W. A.** Amino acid transport across rat bladder, 275.
- Héroux, O.** Effect of guanethidine on metabolic response to noradrenaline and cold resistance in warm-acclimated rats, 265.
- Hickie, R. A.** The self-absorption correction of calcium-45 in biological material, 594.
- Hinshaw, L. B.** See Emerson, T. E., Jr., 41; Reins, D. A., 599.
- Höhn, E. O. and Sarkar, A. K.** Stimulation of mammary lobule alveolar development in the rat by amphenone, 683.
- Holloway, S. A. and Stevenson, J. A. F.** Effect of glucagon on oxygen consumption in the cold-adapted rat, 860.
Effect of glucagon on food intake and weight gain in the young rat, 867.
- Holmes, D. D.** See Reins, D. A., 599.
- Hunter, J. and Haist, R. E.** A study of blood pressure responses during hypothermia in hypophysectomized rats, 209.
A study of the effects of Pitressin and serotonin in the maintenance of blood pressure in the hypophysectomized hypothermic rat, 217.
- Hurley, D. A., Topliff, E. D. L., and Girling, F.** Acute exposure of human subjects to an ambient temperature of 10° C, 233.
- Jaques, L. B.** See Jarrett, C. L., 93; Lucas, O. N., 803.

- Jarrett, C. L. and Jaques, L. B. The anticoagulant and metachromatic properties of the heparinoid G31150 in dogs, 93.
- Jennings, D. B. and Hatcher, J. D. The humoral regulation of erythropoiesis and metabolism during recovery from the rapid production of anaemia in the dog, 719.
- Johnson, W. H. See Sunahara, F. A., 199.
- Jonec, V. A dynamic analysis of the mechanisms involved in acute activation of the pituitary-adrenocortical system by cold, 585.
- Kalant, H., Mons, W., and Guttman, M. Sialic acid content of normal rat liver and of DAB-induced hepatomata, 25.
- Kalow, W. The influence of pH on the hydrolysis of benzoylcholine by pseudocholinesterase of human plasma, 161.
- Koiv, E. See Nowaczynski, W., 547.
- LaBella, F. S. Release of thyrotrophin in vivo and in vitro by synthetic neurohypophyseal hormones, 75.
- Lavallée, M. See Beaulnes, A., 845.
- Lavallée, M., Trémblay, G., and Beaulnes, A. Effects of reserpine and adrenaline on atrial fibrillation, 385.
- Leblanc, J., Villeneuve, J. L., and Lemonde, A. Biogenic amines and fecundity of *Tribolium confusum* Duval (Coleoptera), 757.
- LeMay, B. See DesMarais, A., 373.
- Lemonde, A. See Leblanc, J., 757.
- Leong, K. J., Dowd, G. F., and Macfarland, H. N. A new technique for tidal volume measurement in unanaesthetized small animals, 189.
- Lettau, H. F., Sellers, E. A., and Schönbaum, E. Modification of drug-induced hypothermia, 745.
- Lucas, O. N. and Jaques, L. B. Effects of E-A.C.A. in spontaneous hemorrhage due to stress with anticoagulants in rats, 803.
- MacCannell, K. L. and Dresel, P. E. On the site of origin of cyclopropane-adrenaline arrhythmias, 157.
- Tolerance to the induction of cardiac arrhythmias by adrenaline in cyclopropane-anesthetized dogs, 281.
- Potentiation by thiopental of cyclopropane-adrenaline cardiac arrhythmias, 627.
- Macfarland, H. N. See Leong, K. J., 189.
- MacGregor, D. C., Schönbaum, E., and Bigelow, W. G. Acute toxicity studies on ethanol, propanol, and butanol, 689.
- McLennan, H., Emmons, P. R., and Plummer, P. M. Some behavioral effects of stimulation of the caudate nucleus in unrestrained cats, 329.
- MacLeod, D. P. and Reynolds, A. K. The effect of acetylcholine on adrenaline-induced subatrial rhythms in the sensitized cat heart, 431.
- McNeill, J. H. and Riedel, B. E. The effects of phenelzine on serotonin, noradrenaline, and monoamine oxidase in the rat, 33.
- Manax, S. J. See Butler, H. R., 609.
- Manske, R. F. and Blau, M. Distribution in the rat of partially denatured iodinated serum albumin, 133.
- Masoro, E. J. See Patkin, J. K., 101.
- Mayhew, W. W. See Chaffee, R. R. J., 863.
- Money, K. E. and Friedberg, J. The role of the semicircular canals in causation of motion sickness and nystagmus in the dog, 793.
- Monkhouse, F. C., Daramola, F., and Gillespie, R. J. The action of a proteolytic enzyme from *Aspergillus oryzae* on components of the blood clotting system, 377.
- Mons, W. See Kalant, H., 25.
- Montemurro, D. G. See Stevenson, J. A. F., 855.
- Moore, R. E. See Baum, H., 831.
- Moule, J. W. and Nace, P. F. Radioiodide metabolism in *Amphiuma* after its intraperitoneal administration, 623.
- Moule, M. L. See Nace, P. F., 225.
- Nace, P. F. See Moule, J. W., 623.
- Nace, P. F., Moule, M. L., and Schuh, J. E. The normal blood sugar of the toadfish, 225.
- Nishikawa, M. T., Hawkins, R. D., and Haist, R. E. The effect of ACTH, cortisone, desoxycorticosterone, and ACTH plus thyroid on the amylolytic activity of the pancreas in hypophysectomized and intact rats, 65.
- Noble, D. J. See Ewing, L. L., 527.
- Nowaczynski, W., Koiv, E., and Genest, J. Urinary excretion of Δ^4 -pregnene-3 β ,17 α ,20 α -triol in normal subjects and hypertensive patients, 547.

- Nowell, N. W.** and **White, D. C.** Note on plasma magnesium in the cold-acclimated rat subjected to hypothermia, 679.
- O'Driscoll, R. G., Beach, V. L.,** and **Steinetz, B. G.** Lung inflammation in mice exposed to aerosolized endotoxin and its reversal by antiphlogistic agents, 289.
- Panisset, J.-C., Carle, R.,** and **Beaulnes, A.** Perfusion pressure in relation to the production and cessation of experimental cardiac arrhythmias, 21.
- Patel, Y. J.** and **Gowdey, C. W.** Effects of single and repeated exposures to oxygen at high pressure on normal rats, 245.
- Patkin, J. K.** and **Masoro, E. J.** Fatty acid synthesis in normal and cold-acclimated rats, 101.
- Perry, W. F.** and **Corbett, B. N.** Changes in plasma triglyceride concentration following the intravenous administration of glucose, 353.
- Philp, R. B.** The ameliorative effects of heparin and depolymerized hyaluronate on decompression sickness in rats, 819.
- Picard, G.** See Renaud, S., 870.
- Plummer, P. M.** See McLennan, H., 329.
- Prioreschi, P.** and **Gabbiani, G.** Action of various damaging agents on myocardial potassium, 763.
- Radomski, M. W.** and **Wood, J. D.** The lipotropic action of cold. 1. The influence of cold and choline deficiency on liver lipids of rats at different intakes of dietary methionine, 769.
- Reins, D. A., Holmes, D. D.,** and **Hinshaw, L. B.** Acute and chronic effects of the insecticide endrin on renal function and renal hemodynamics, 599.
- Renaud, S.** and **Picard, G.** An improved table for hypophysectomy in rat, 870.
- Reynolds, A. K.** See MacLeod, D. P., 431.
- Riedel, B. E.** See McNeill, J. H., 33.
- Ringer, R. K.** See Speckmann, E. W., 553.
- Roach, M. R.** and **Harvey, K.** Experimental investigation of poststenotic dilatation in isolated arteries, 53.
- Roberts, E.** See Vanstone, W. E., 697.
- Roschlau, W. H. E.** The evaluation in the dog of a proteolytic enzyme derived from *Aspergillus Oryzae*, 109.
- Sarkar, A. K.** See Höhn, E. O., 683.
- Schoeffling, K.** See Sirek, A., 299.
- Schönbaum, E.** See Lettau, H. F., 745; MacGregor, D. C., 689.
- Schuh, J. E.** See Nace, P. F., 225.
- Scriven, C. R.** Glycyl-proline in urine of humans with bone disease, 357.
- Sellers, E. A.** See Lettau, H. F., 745.
- Sibbald, I. R.** See Allen, M. R. P., 733.
- Sirek, A., Schoeffling, K., Webster, M.,** and **Sirek, O. V.** Absence of effect of bovine growth hormone on blood sugar of Houssay dogs, 299.
- Sirek, O. V.** See Sirek, A., 299.
- Smith, L. C.** and **Dugal, L.-P.** Spontaneous activity and catechol amine excretion, 563. Excretion of catechol amines by white rats in the cold, 567. Excretion of injected catechol amines by white rats at 23° C and 2° C, 579.
- Speckmann, E. W.** and **Ringer, R. K.** Static elastic modulus of the turkey aorta, 553.
- Stavraky, G. W.** See Butler, H. R., 609.
- Steinetz, B. G.** See O'Driscoll, R. G., 289.
- Stevenson, J. A. F.** See Beaton, J. R., 533, 647, 657, 665, 705; Holloway, S. A., 860, 867.
- Stevenson, J. A. F., Box, B. M.,** and **Montemurro, D. G.** Evidence of possible association pathways for the regulation of food and water intake in the rat, 855.
- Sunahara, F. A., Johnson, W. H.,** and **Taylor, N. B. G.** Vestibular stimulation and forearm blood flow, 199.
- Szerb, J. C.** The effect of tertiary and quaternary atropine on cortical acetylcholine output and on the electroencephalogram in cats, 303.
- Szlavko, A. J.** See Beaton, J. R., 647, 657, 665.
- Taylor, N. B. G.** See Sunahara, F. A., 199.
- Topliff, E. D. L.** Decompression mortality related to lung oedema and tension pneumothorax, 85.
- See also Hurley, D. A., 233.
- Tremblay, G.** See Lavallée, M., 385.
- Triantaphyllopoulos, D. C.** and **Triantaphyllopoulos, E.** Isolation and properties of anticoagulants from fibrinolyzed and human heart-pump plasmas, 169.
- Triantaphyllopoulos, E.** See Triantaphyllopoulos, D. C., 169.
- Tsuyuki, H.** See Vanstone, W. E., 697.
- Vallyathan, N. V.** See George, J. C., 447.

- Vanstone, W. E., Roberts, E., and Tsuyuki, H.** Changes in the multiple hemoglobin patterns of some Pacific salmon, genus *Oncorhynchus*, during the parr-smolt transformation, 697.
- Venning, E. H.** See Blair, A. J., Jr., 391.
- Villeneuve, J. L.** See Leblanc, J., 757.
- Watson, W. J.** See Wood, J. D., 277, 641.
- Webber, W. A.** See Henderson, C. B., 275.
- Webster, M.** See Sirek, A., 299.
- White, D. C.** See Nowell, N. W., 679.
- Wilson, M. L.** See Beer, C. T., 1, 368.
- Wood, J. D.** The effect of cold exposure on plasma and liver cholesterol levels in rats fed various diets, 779.
See also Radomski, M. W., 769.
- Wood, J. D. and Watson, W. J.** The effect of oxygen on glutamic acid decarboxylase and gamma-aminobutyric acid - alpha-ketoglutaric acid transaminase activities in rat brain homogenates, 277.
Molecular structure - activity relationships of compounds protecting rats against oxygen poisoning, 641.
- Woodhead, R. L.** See Beaton, J. R., 365.